

Student Name:

Student ID:

1- The wave length of a periodic sinusoidal signal equals 1/8, when the frequency equals 2.4GHz and propagation speed equals 3×10^8 m/s. $\lambda = VT \Rightarrow \frac{V}{F} = \frac{3 \times 10^8}{2.4 \times 10^9}$

2- The time-domain plot of a signal shows the relation between strength and time.

3- A Half duplex link is a link that can transfer data in both directions, but one direction at a time.

4- What is the frequency for a wave with cycle period equals 0.2 msec?

$$f = \frac{1}{T} \Rightarrow f = \frac{1}{0.2 \times 10^{-3}} = 5 \text{ KHz}$$

5- What the main parameters that defines a periodic sine wave?

- Amplitude
- Frequency
- Phase

6- Draw a simplified communication model

